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NOTICE OF ALLOWANCE AND FEE(S) DUE

027765

7590

03/03/2004

NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE) P.O. BOX 506 MERRIFIELD, VA 22116 EXAMINER

DOUGHERTY, ANTHONY T

ART UNIT

PAPER NUMBER

2863

DATE MAILED: 03/03/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,213	06/21/2002	Edwin Kurt Naroska	SUNP0004USA	2834

TITLE OF INVENTION: FAST WAVEFORM DISPLAY METHOD AND SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	06/03/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

naintenance fee notifications	i.					_	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, much ave its own certificate of mailing or transmission.			
027765 759	00 03/03/2004			have its own certifica	te of mailing or transmission.	•	
NAIPO (NORTH OFFICE) P.O. BOX 506 MERRIFIELD, VA	AMERICA INTERI	NATIONAL PATEI	NT	I hereby certify that the States Postal Service addressed to the Ma	ertificate of Mailing or Trans this Fee(s) Transmittal is being with sufficient postage for fir all Stop ISSUE FEE address PTO, on the date indicated bel	g deposited with the United st class mail in an envelope above, or being facsimile	
MERRIFIELD, VA	22110					(Depositor's name)	
					0	(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	FIRST NA	MED INVE	NTOR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	06/21/2002		Kurt Naros		SUNP0004USA	2834	
10/064,213				ока	30141 000 4 03A	2654	
TITLE OF INVENTION: FA	SI WAVEFORM DISPLA	T METHOD AND STSTE					
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nonprovisional	YES	\$665		\$300	\$965	06/03/2004	
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DOUGHERTY,	ANTHONY T	2863		702-067000	_ :		
CFR 1.363).	address or indication of "Fe	name:	of up to OR, altern	the patent front page 3 registered patent natively, (2) the name	attorneys or 1		
Address form PTO/SB/12	2) attached. n (or "Fee Address" Indicat r more recent) attached. Use	ion form agent	and the n	a member a registered ames of up to 2 regis ats. If no name is liste	stered patent		
PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE	an assignee is identified bel to the USPTO or is being s	ow, no assignee data will a submitted under separate co	ppear on the ver. Comple	e natent. Inclusion of	assignee data is only approprior a substitute for filing an ass	ate when an assignment ha ignment.	
Please check the appropriate	assignee category or category	ries (will not be printed on t	the patent);	🔾 individual 🔾	corporation or other private gr	roup entity	
a. The following fee(s) are e	enclosed:	4b. Paymer	nt of Fee(s):				
☐ Issue Fee		☐ A che	ck in the an	nount of the fee(s) is er	nclosed.		
Publication Fee			•	t card. Form PTO-203			
☐ Advance Order - # of C	Copies	The Deposit	Director is Account No	hereby authorized by our hereby authorized by a supplication of the	charge the required fee(s), or (enclose an extra c	credit any overpayment, to opy of this form).	
Director for Patents is reques	ted to apply the Issue Fee ar	nd Publication Fee (if any)	or to re-app	y any previously paid	issue fee to the application ide	ntified above.	
Authorized Signature)		(Date)					
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	Publication Fee (if require registered attorney or age ords of the United States Pa	ed) will not be accepted fi ent; or the assignee or oth tent and Trademark Office.	rom anyone er party in			·	
This collection of informat obtain or retain a benefit by application. Confidentiality estimated to take 12 minute completed application form case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SI SEND TO: Commissioner for the state of t	ion is required by 37 CFR by the public which is to find is governed by 35 U.S.C. It is to complete, including grant to the USPTO. Time will the amount of time you to the burden, should be sent office, U.S. Department of END FEES OR COMPLE	1.311. The information is the (and by the USPTO to 22 and 37 CFR 1.14. This cathering, preparing, and sult vary depending upon the require to complete this for the Chief Information Of Commerce, Alexandri TED FORMS TO THIS	required to process) an collection is omitting the command/or officer, U.S.				

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OFFICE) P.O. BOX 506			ART UNIT	PAPER NUMBER
MERRIFIELD, VA	A 22116		2863	
			DATE MAILED: 03/03/2004	1

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 195 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 195 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	10/064,213	NAROSKA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Anthony T. Dougherty	2863	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to Request for withdraw	al as agent filed 8/18/2003.		
2. The allowed claim(s) is/are <u>1-12</u> .			
3. The drawings filed on <u>21 June 2002</u> are accepted by the E	xaminer.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM	e been received. been received in Application No cuments have been received in this communication to file a reply of this communication to file a reply of	national stage applica	
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			IOTICE OF
 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t 7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	son's Patent Drawing Review (PTO- s Amendment / Comment or in the O .84(c)) should be written on the drawin he header according to 37 CFR 1.121(c	office action of ligs in the front (not the d).	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), le nent/Comment	,

DETAILED ACTION

PRIOR ART

- 1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Patent No. 5,519,820 to Kawauchi et al. because it teaches displaying waveform data that can be enlarged or reduced to show higher or lower resolution of the waveform data.
- U.S. Patent No. 5,877,620 to Tomi because it teaches displaying waveform data outside of a certain range in a predetermined format.
- U.S. Patent No. 5,079,720 to Sinclair because it teaches displaying waveform data in ranges, the ranges updated by where data is represented in a display field.
- U.S. Patent No. 5,684,508 to Brilman because it teaches continuous display of waveform data by compression of the data once the entire display region is used for display.
- U.S. Patent No. 5,517,105 to Holzwarth because it teaches displaying waveform data with multiple selectable resolutions on the same display.

Allowable Subject Matter

- 2. Claims 1-12 allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-6 is the inclusion of the method steps being displaying waveform data on a display by displaying a region corresponding to an index element with a maximum interval of transition events within the time range corresponding to the indexing element that exceeds a minimum time resolution within which transition events can be

Application/Control Number: 10/064,213

Art Unit: 2863

adequately displayed by drawing the transition events for the range corresponding to that indexing element, and displaying a region corresponding to a second indexing element with a maximum interval of transition events within the time range corresponding to the indexing element that is less than a minimum time resolution within which transition events can be adequately displayed by drawing a predetermined image in place of transition events for the range corresponding to the second indexing element. It is these steps found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 7-12 is the inclusion of the limitations of a computer system with a display region corresponding to an index element with a maximum interval of transition events within the time range corresponding to the indexing element that exceeds a minimum time resolution within which transition events can be adequately displayed by drawing the transition events for the range corresponding to that indexing element, and a second display region corresponding to a second indexing element with a maximum interval of transition events within the time range corresponding to the indexing element that is less than a minimum time resolution within which transition events can be adequately displayed by drawing a predetermined image in place of transition events for the range corresponding to the second indexing element. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Art Unit: 2863

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony T. Dougherty whose telephone number is (571) 272-2273. The examiner can normally be reached on Monday through Friday from 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

atd

KAMINI SHAH
PRIMARY EXAMINER

AU. 2863